

FIG.2

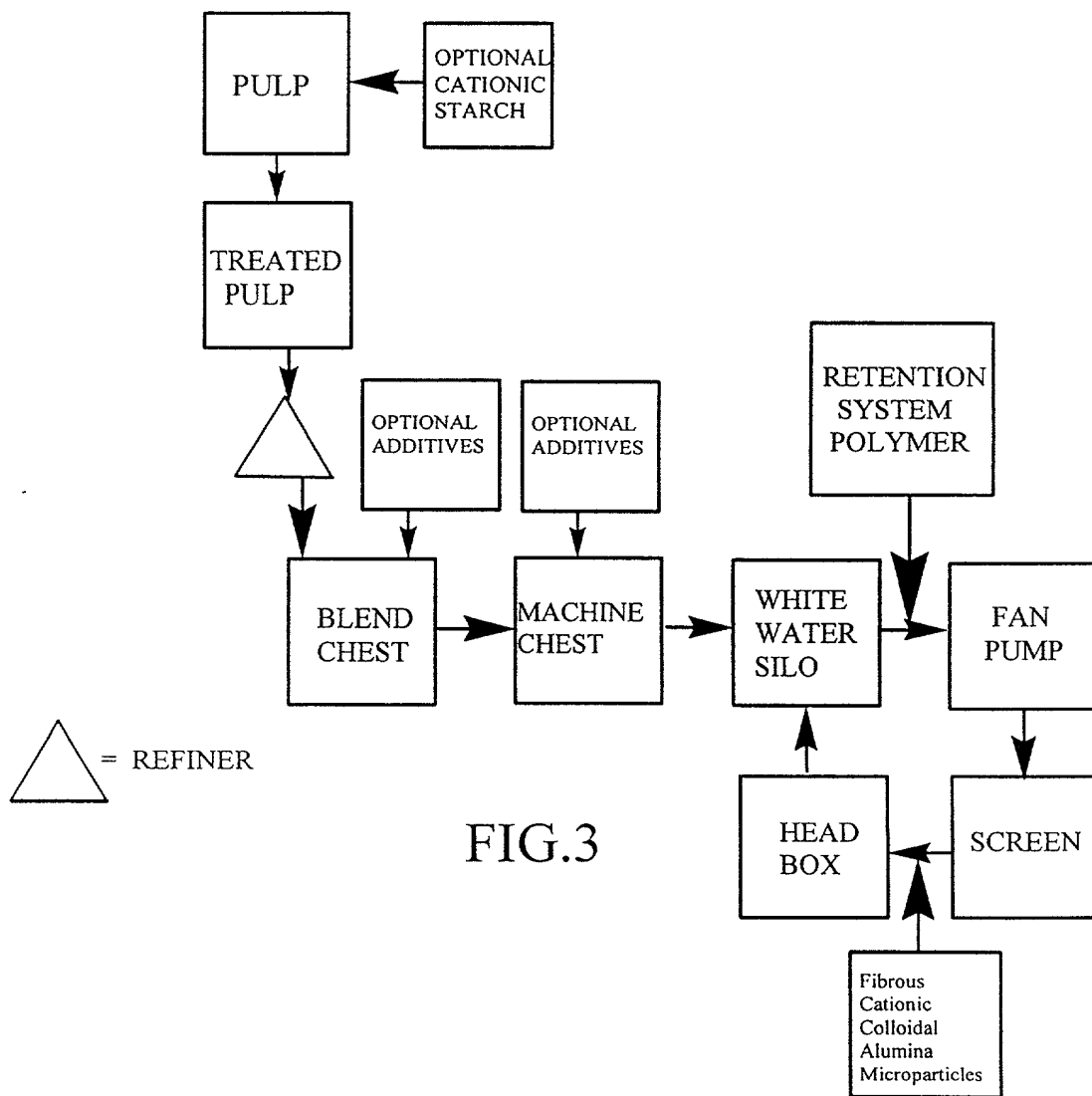


FIG.3

Newsprint - Turbidity

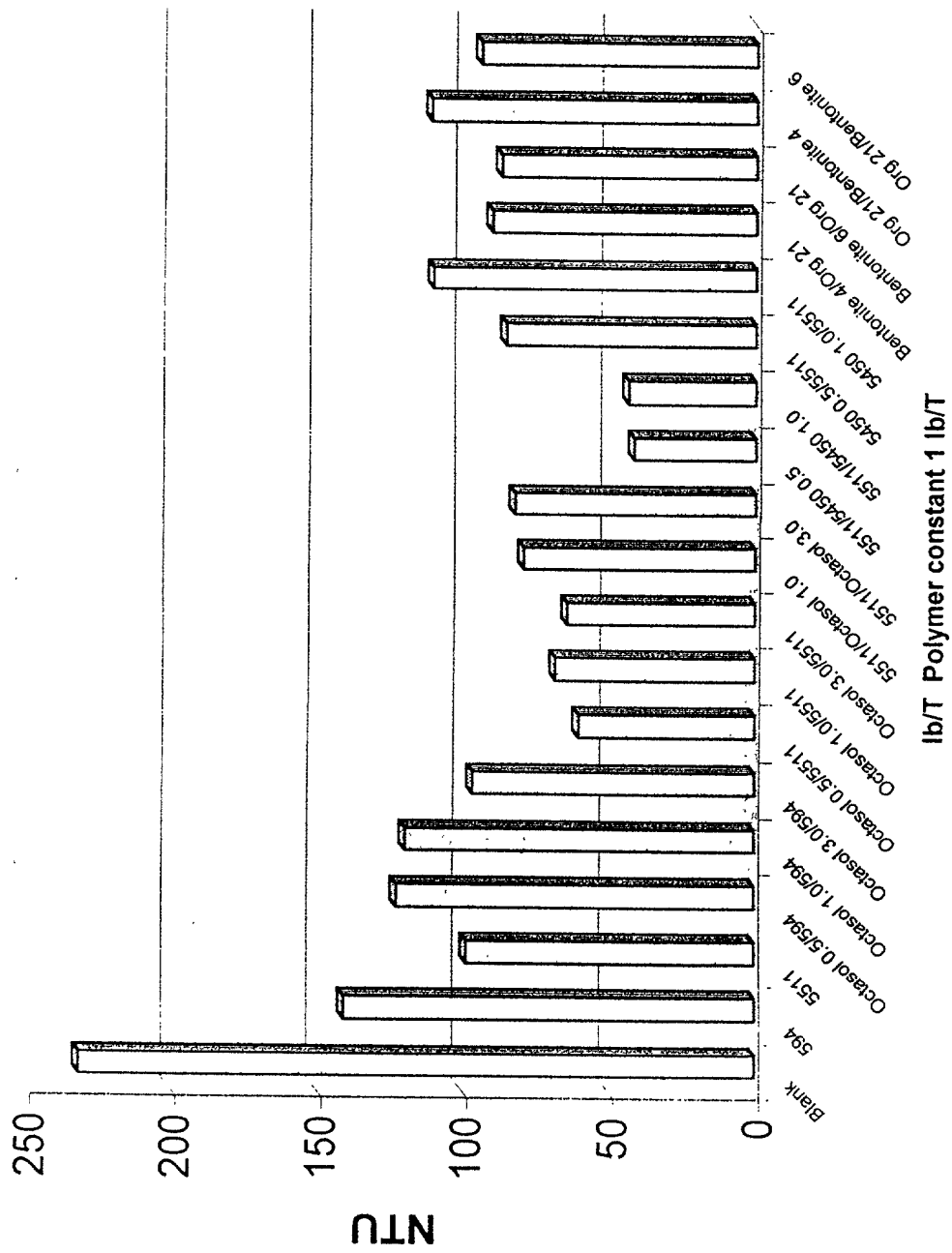


FIG. 4

[illegible]

FIG. 5

FIG. 6 is a bar chart showing the drainage time in seconds for various samples. The y-axis is labeled 'Seconds' and ranges from 0 to 70. The x-axis is labeled 'lb/T' and lists the samples: Blank, 5511, Octasol 1.0/5511, 5511/5450 1.0, Bentonite 4/Org 21, and Bentonite 6/Org 21. The drainage times are approximately: Blank (65s), 5511 (40s), Octasol 1.0/5511 (35s), 5511/5450 1.0 (15s), Bentonite 4/Org 21 (30s), and Bentonite 6/Org 21 (30s).

Drainage

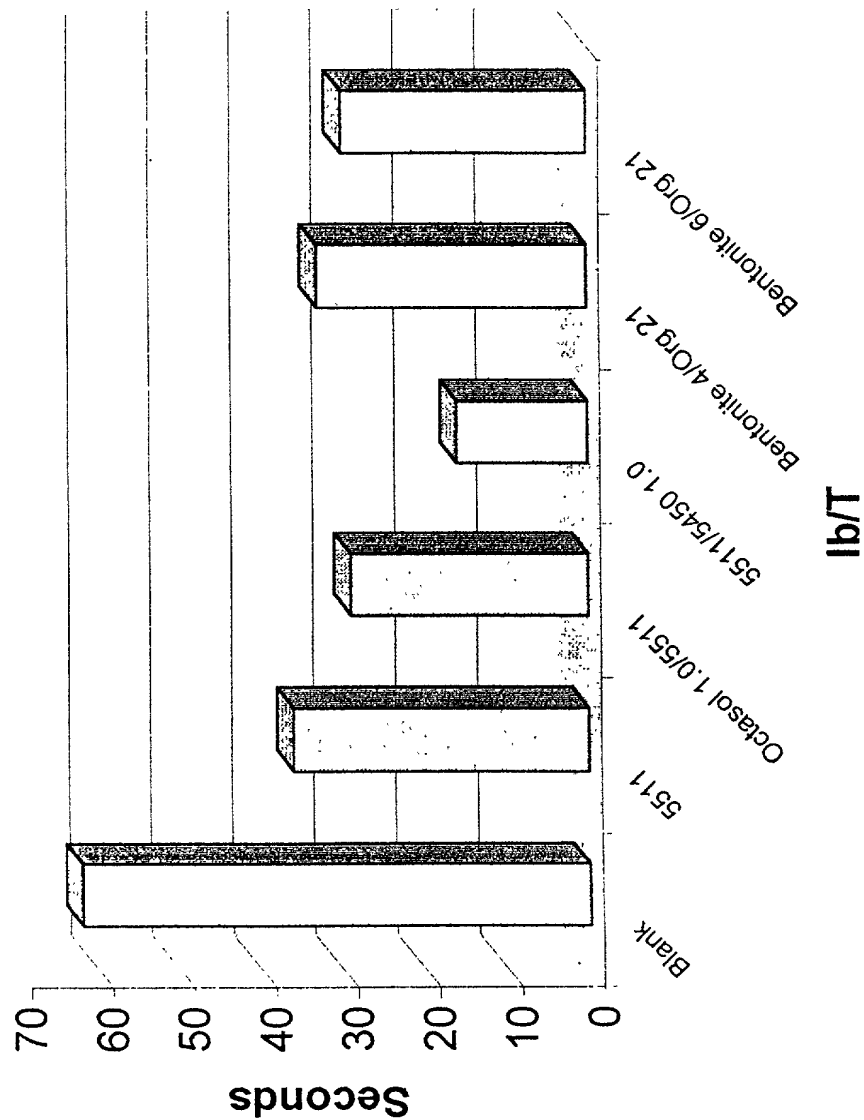


FIG. 6

Comparison against dual component system

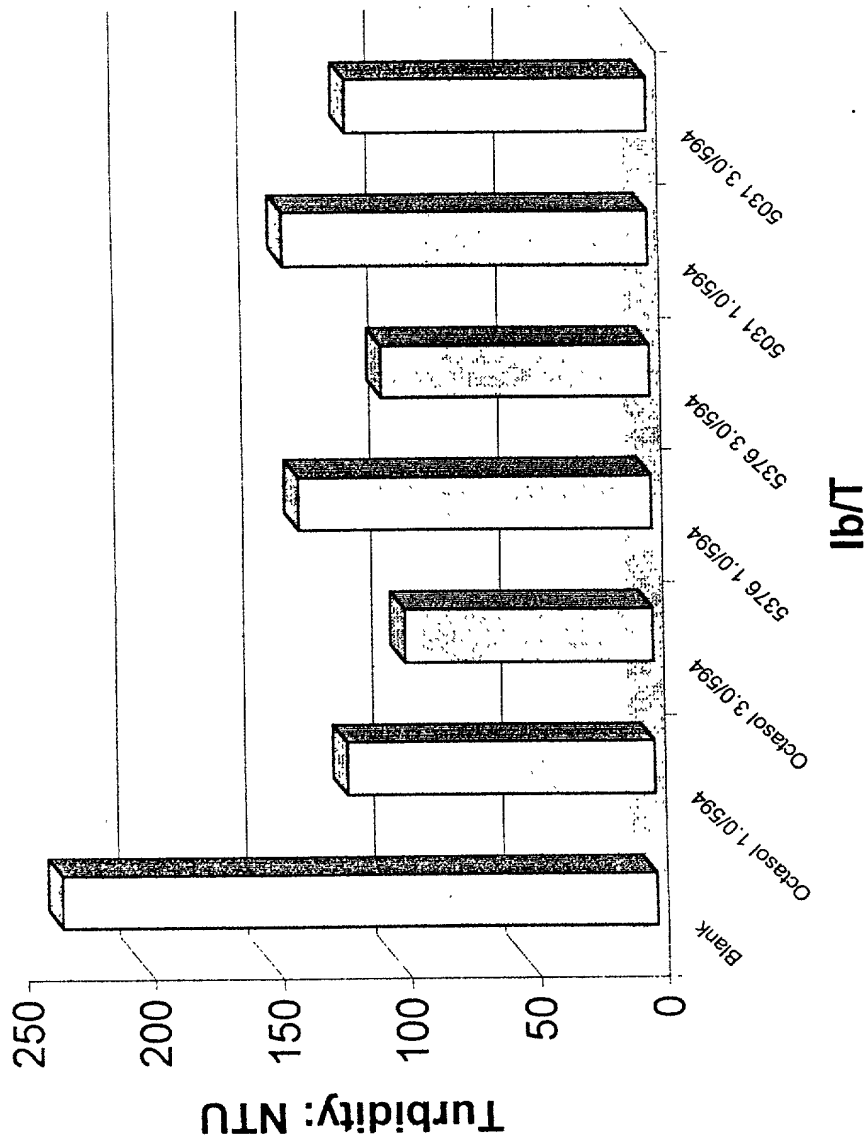


FIG. 7

Comparison against dual component system

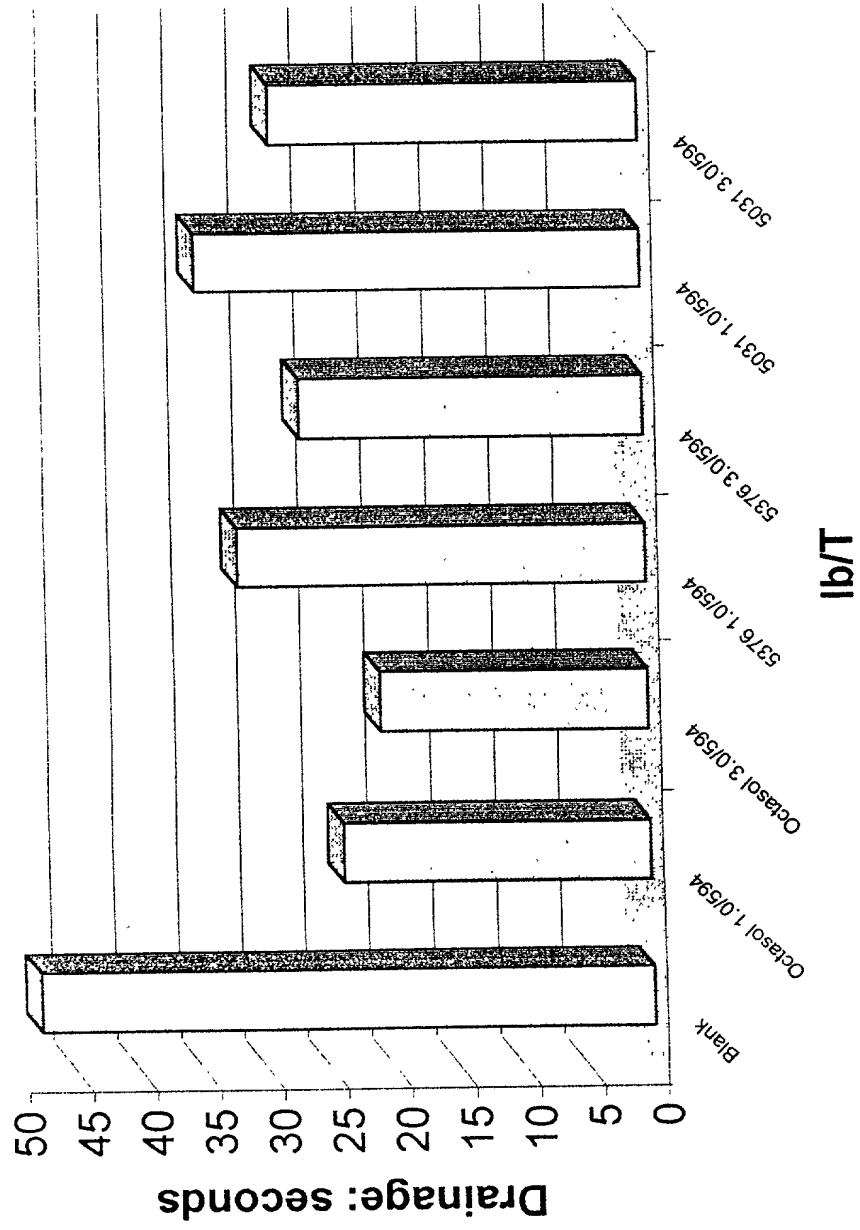


FIG. 8

20% Hard whites
 40% manfold white ledger
 40% hogged (tabloid news)
 cationic demand - 0.6 meq/l
 pH - 7.9

Top ply

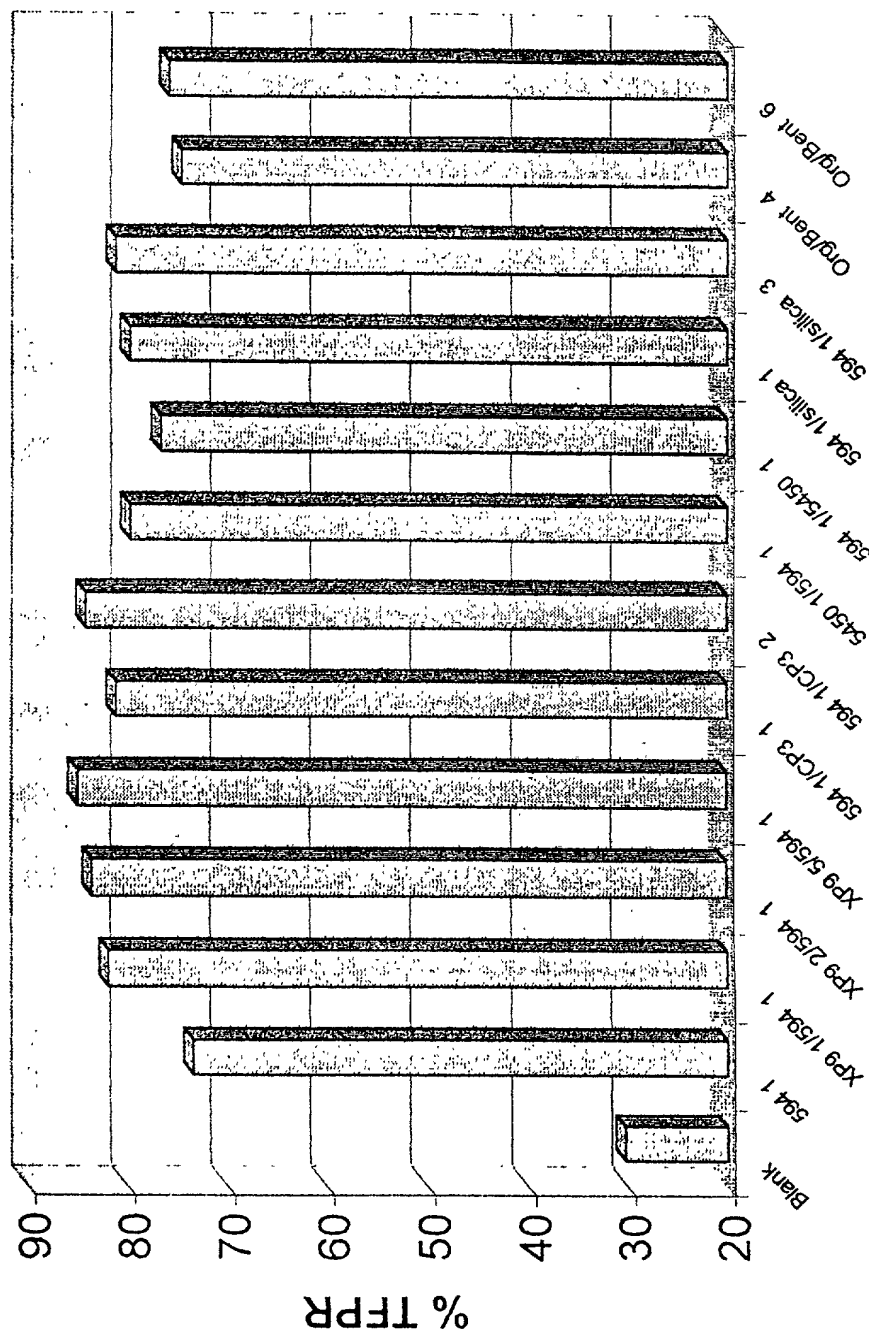


FIG. 9

20% Hard whites
 40% manifold white ledger
 40% hogged (tabloid news)
 cationic demand - 0.6 meq/l
 pH - 7.9

Top ply

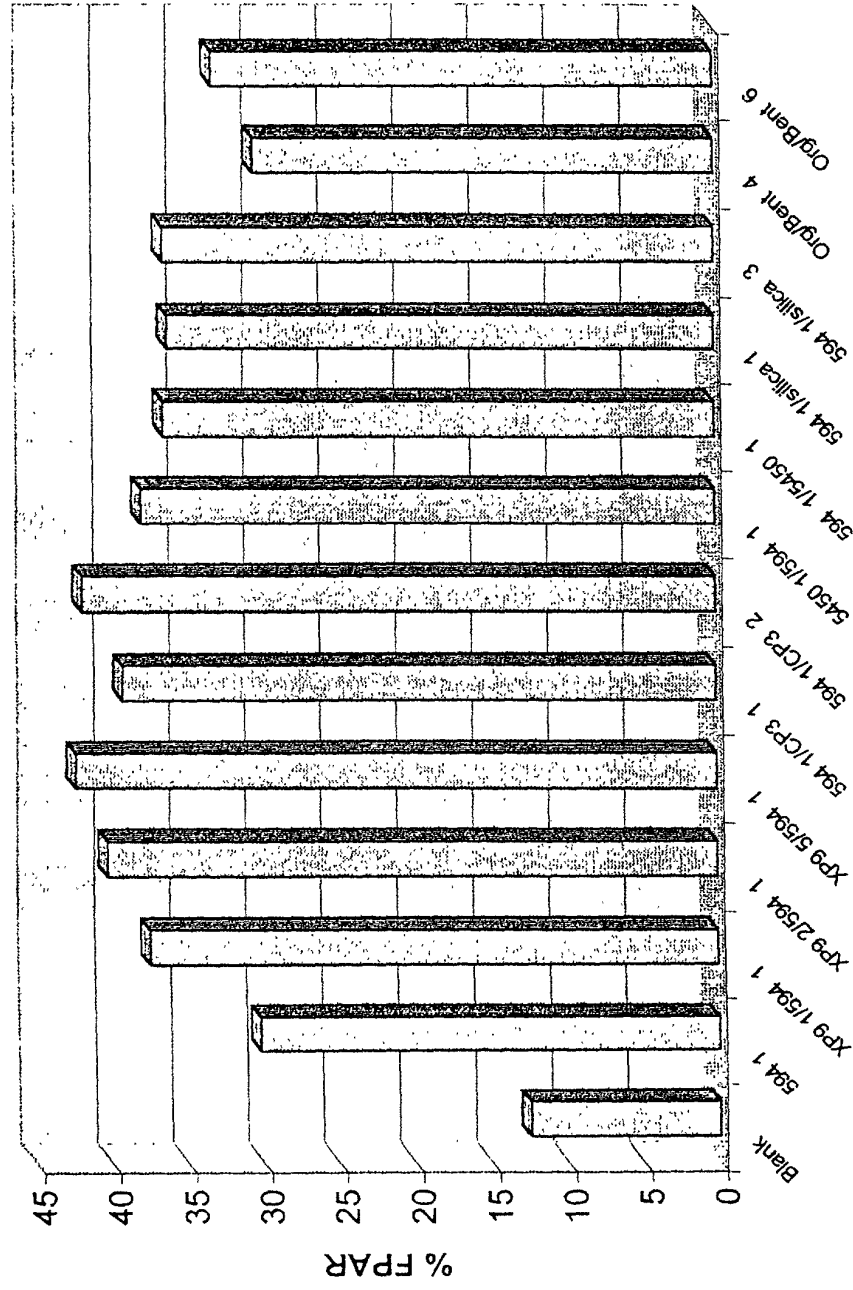


FIG. 10

30% Corrugated
 60% box
 10% ONP
 pH - 7.4
 Cationic demand - .4 meq/L

Filler ply

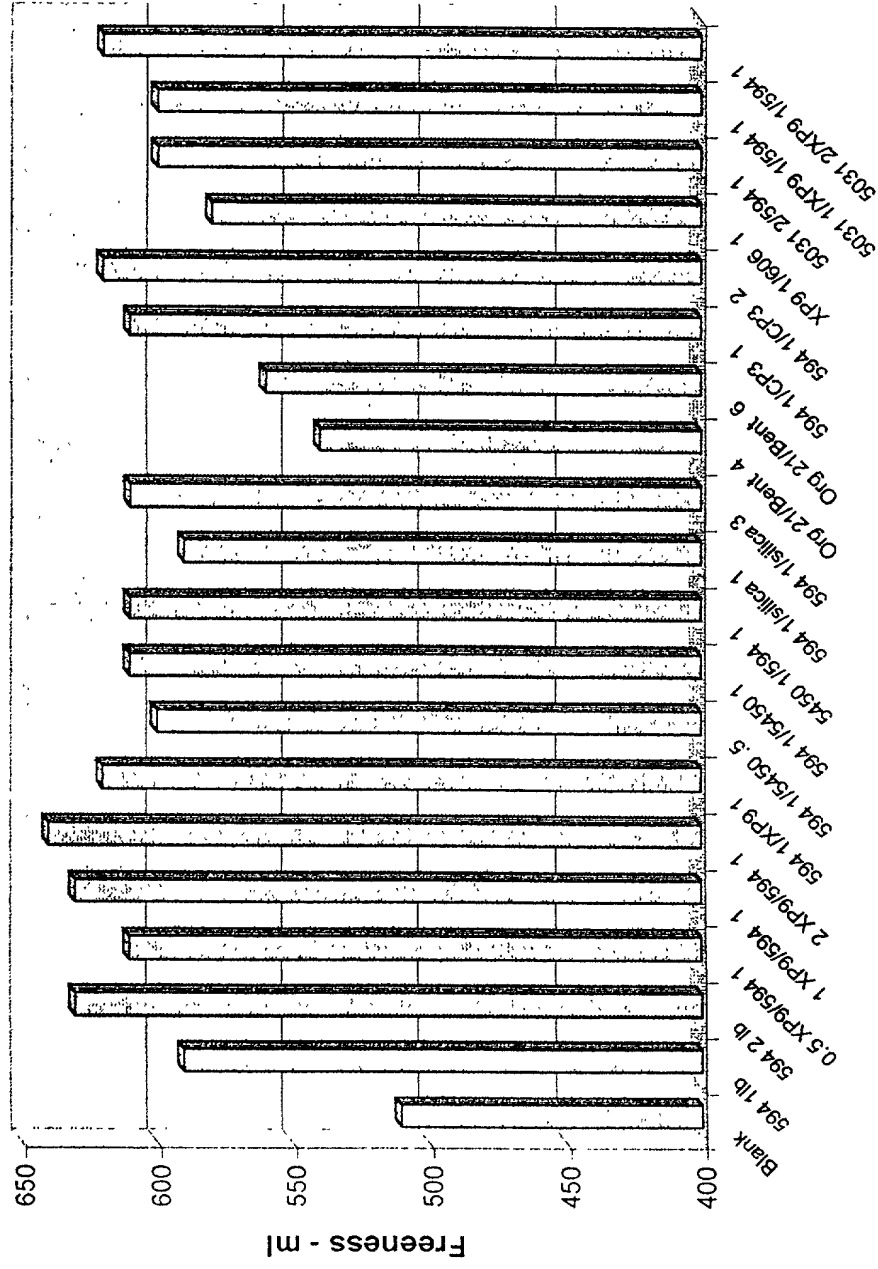


FIG. 11

100% ONP
 pH - 7.85
 Cationic demand - .55 meq/L

Back ply

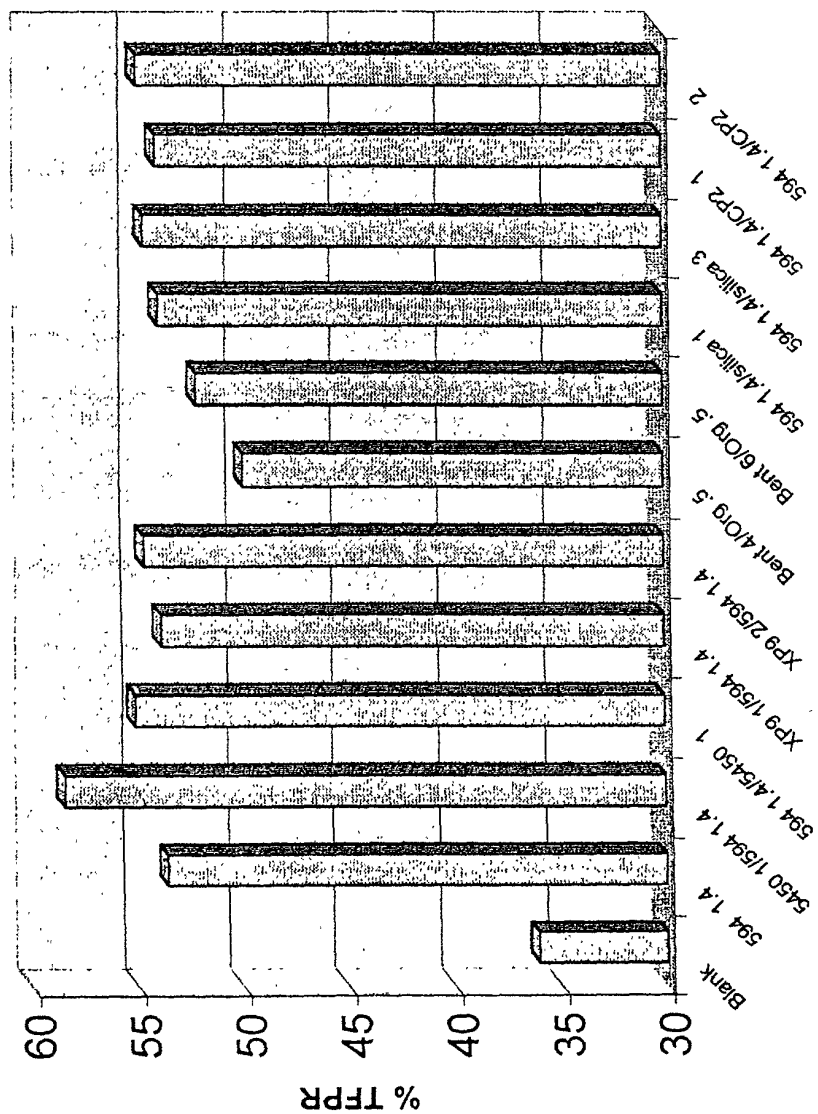


FIG. 12

15.5% Kraft blend
 36.8% Mgo HWD
 38.9% Fir
 8.8% Broke
 Conductivity: 1046
 pH - 8.6
 ASA - 2.1 lb/T
 PCC - 280 lb/T

TFPR:

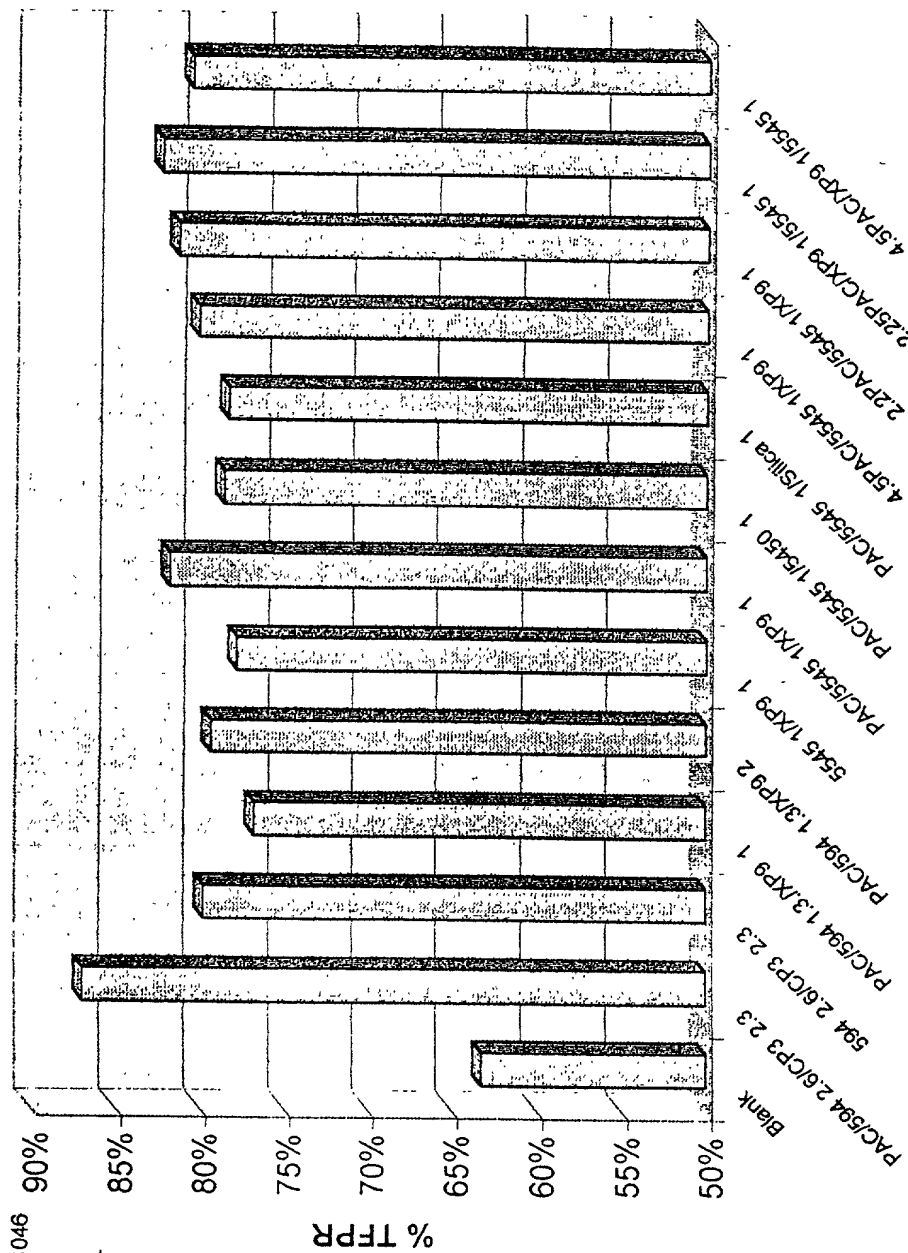


FIG. 13

15.5% Kraft blend
 36.8% MgO HWD
 38.9% Fir
 8.8% Broke
 Conductivity: 1046
 pH - 8.6
 ASA - 2.1 lb/T
 PCC - 280 lb/T

FPAR:

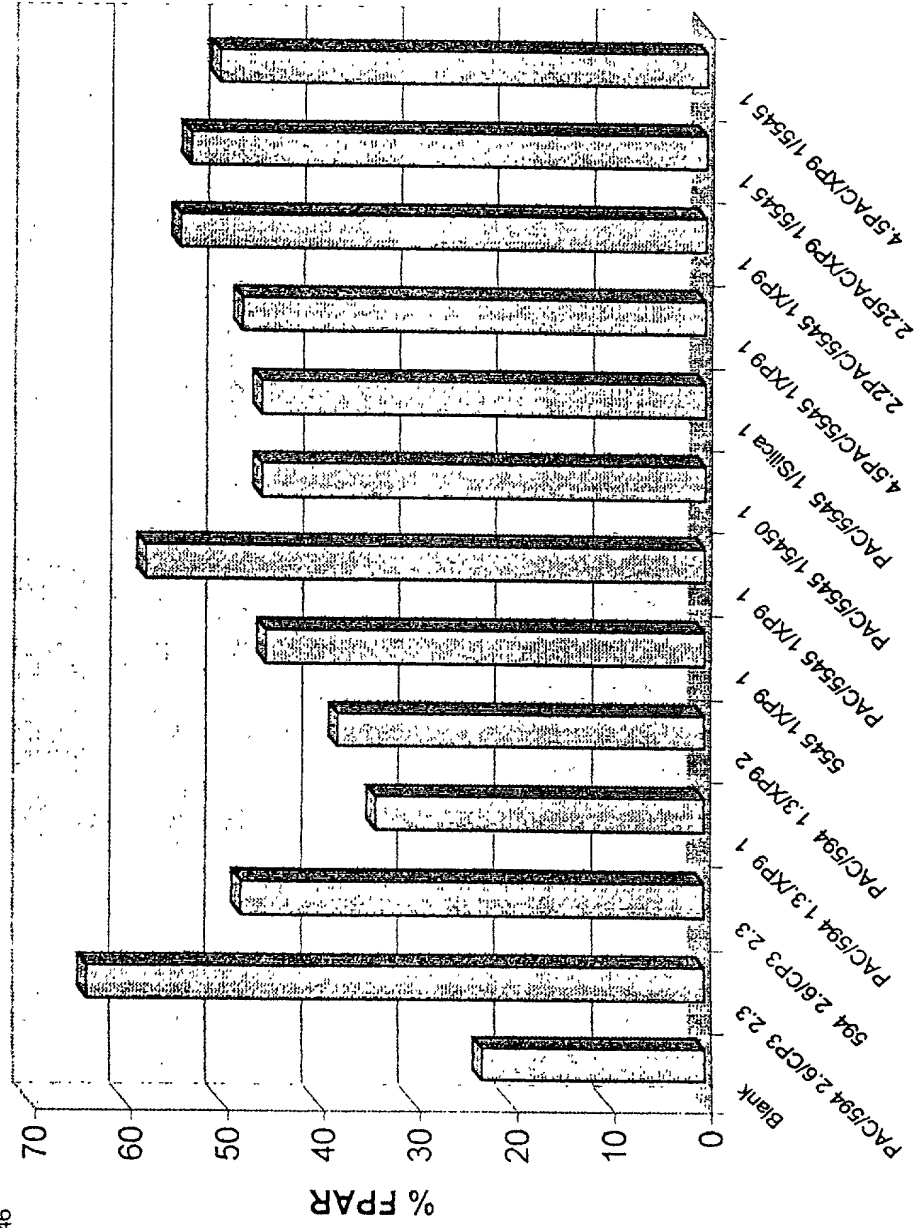


FIG. 14

15.5% Kraft Blend
36.8% MgO HWD
38.9% Fir
8.8% Broke
PCC - 280 lb/T
ASA - 2.1 lb/T
Conductivity 1005
pH - 8.3

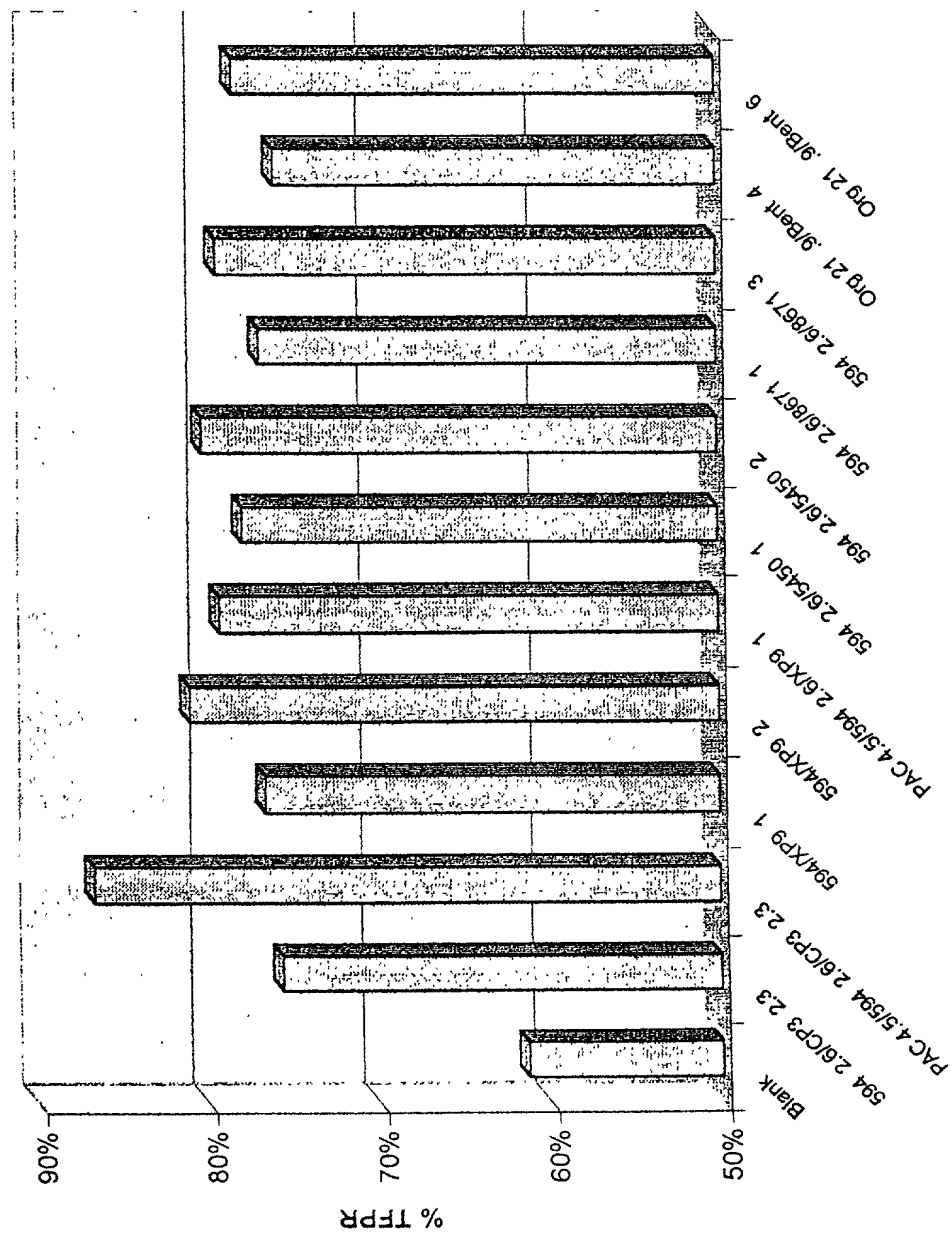


FIG. 15

15.5% Kraft Blend
 36.8% MgO HWD
 38.9% Fir
 8.8% Broke
 PCC - 280 lb/T
 ASA - 2.1 lb/T
 Conductivity 1005
 pH - 8.3

FPAR:

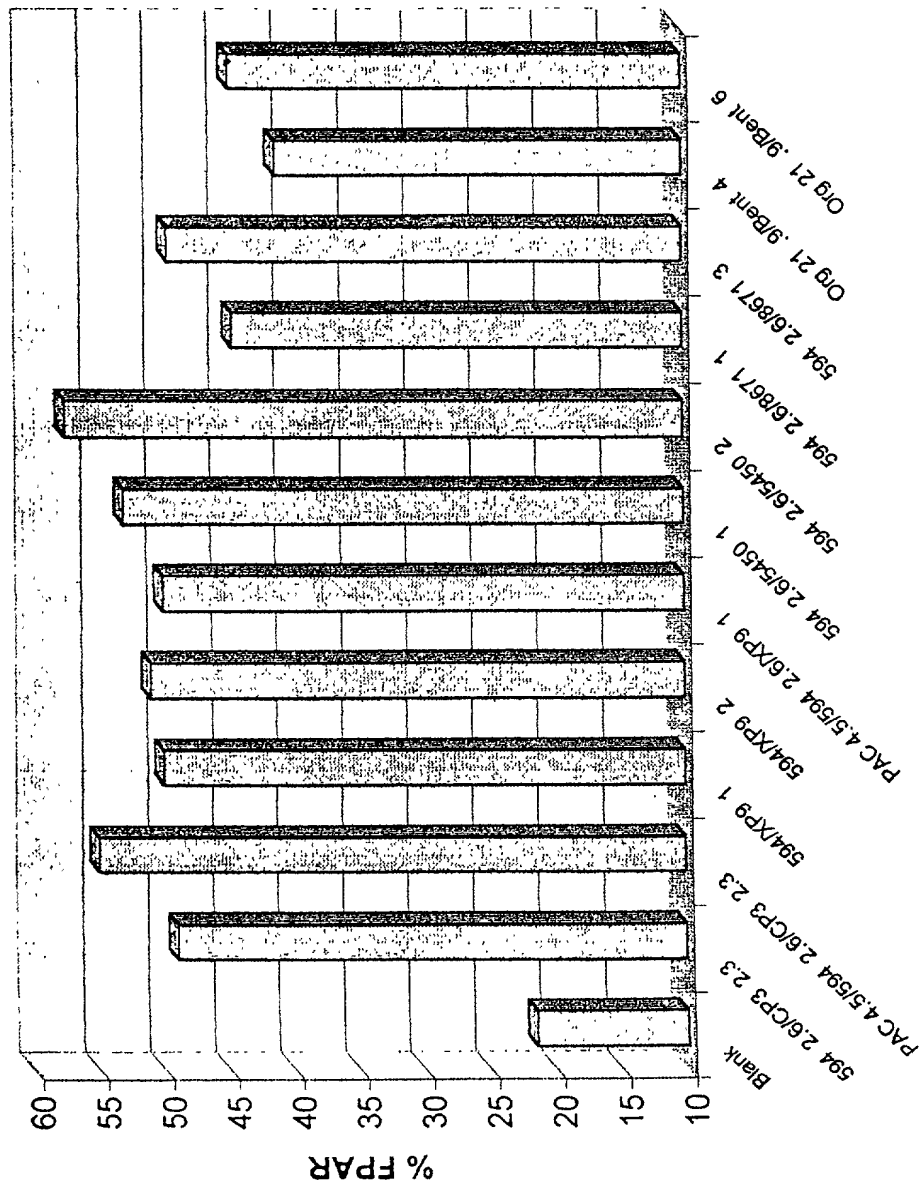


FIG. 16

40% sulphite
40% SWD
20% HWD
50% Machine
broke
PCC - 160 lb/ton
TiO₂ - 280 lb/ton
Starch - 17 lb/ton
Conductivity-
4/20

TFPR:

Uncoated alkaline

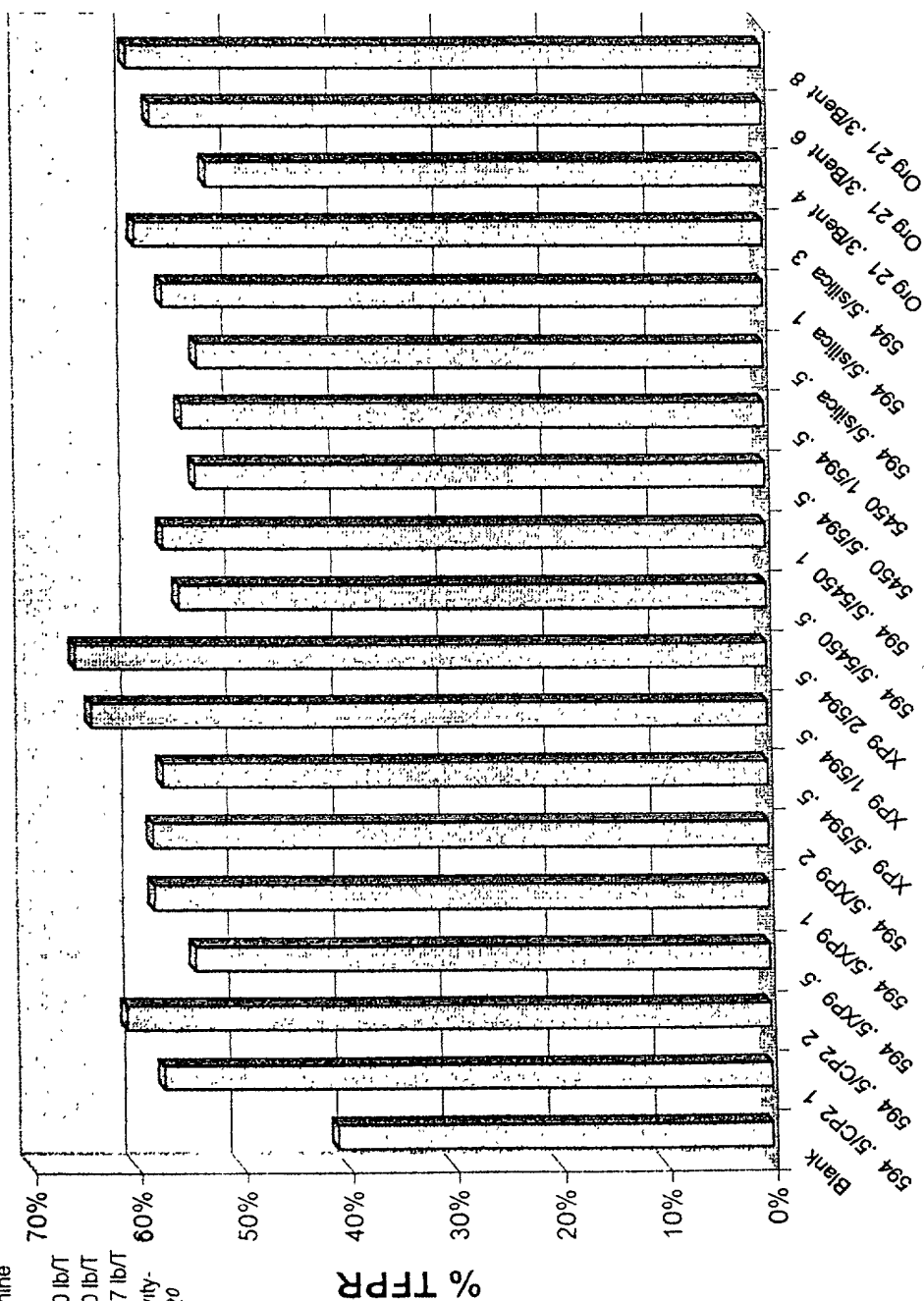


FIG. 17

FPAR:
Uncoated alkaline

PCC - 160 lb/T

Starch - 17 lb/ft

pH - 8.5



40% GWD
 47% Sulphite
 13% SWD
 15% Machine broke
 20% Coated broke
 Filler - 15lb/t
 Starch - 25 lb/t
 Alum - 6 lb/t
 Conductivity -
 pH - 6.2
 Charge - .085 meq/l

TFPR:
Catalog - coated acid

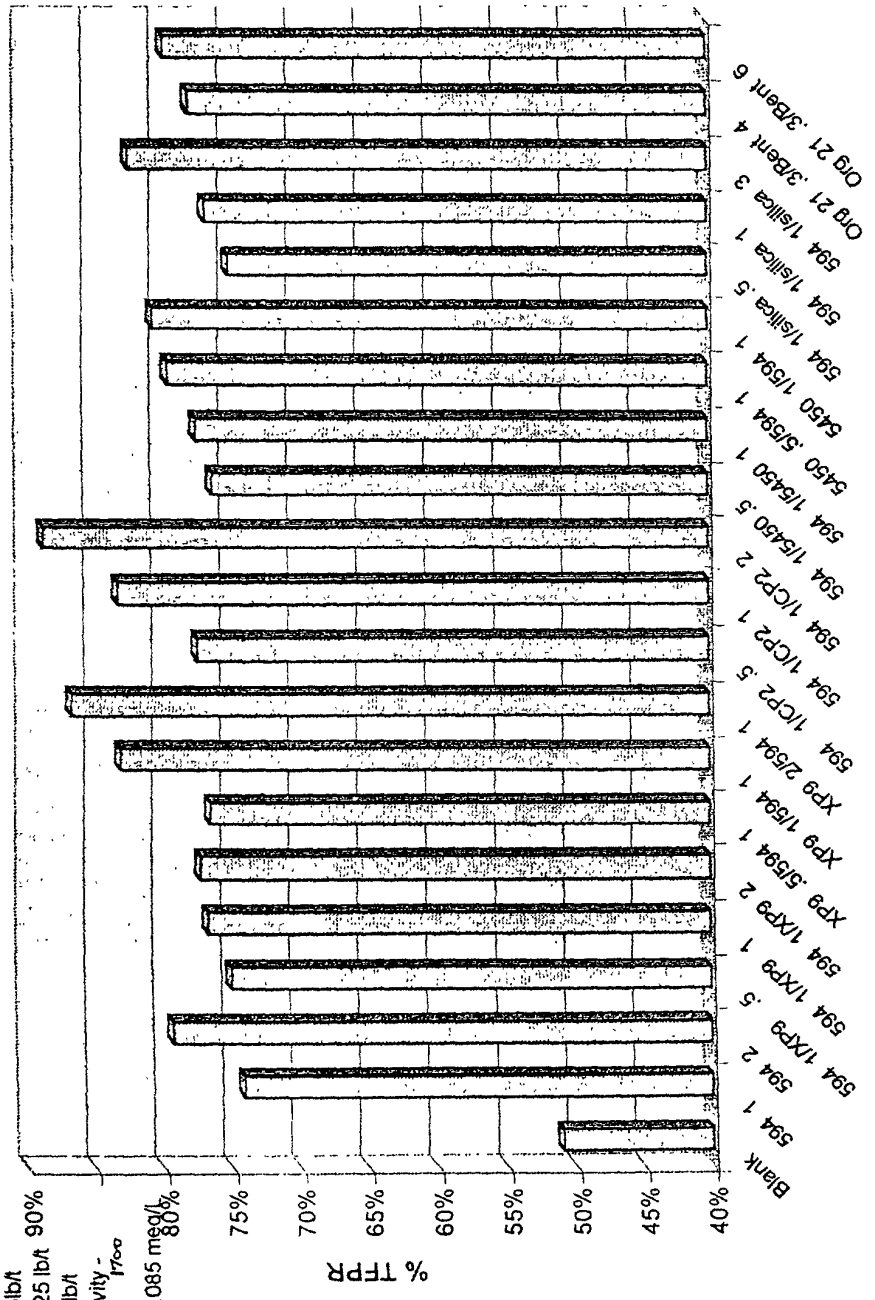


FIG. 19

FIG. 21

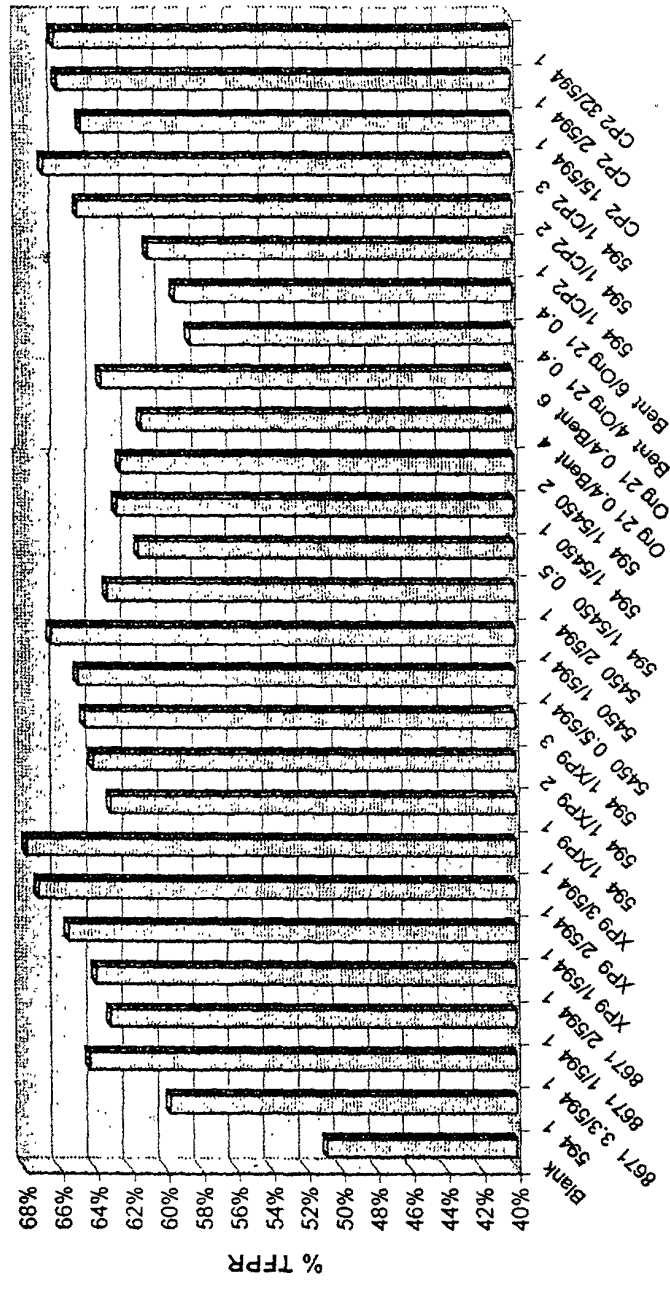


FIG. 21

TFPR: Uncoated acid

10%Bleached sulfite
40% unbleached gwd
30% CDW/ONP
10%Surger broke
10% Machine broke
5% bleached broke
15% bond broke
Conductivity-1064
pH - 5.4
Filler-60 lb/t
Starch - 20 lb/T
Alum - 22 lb/T

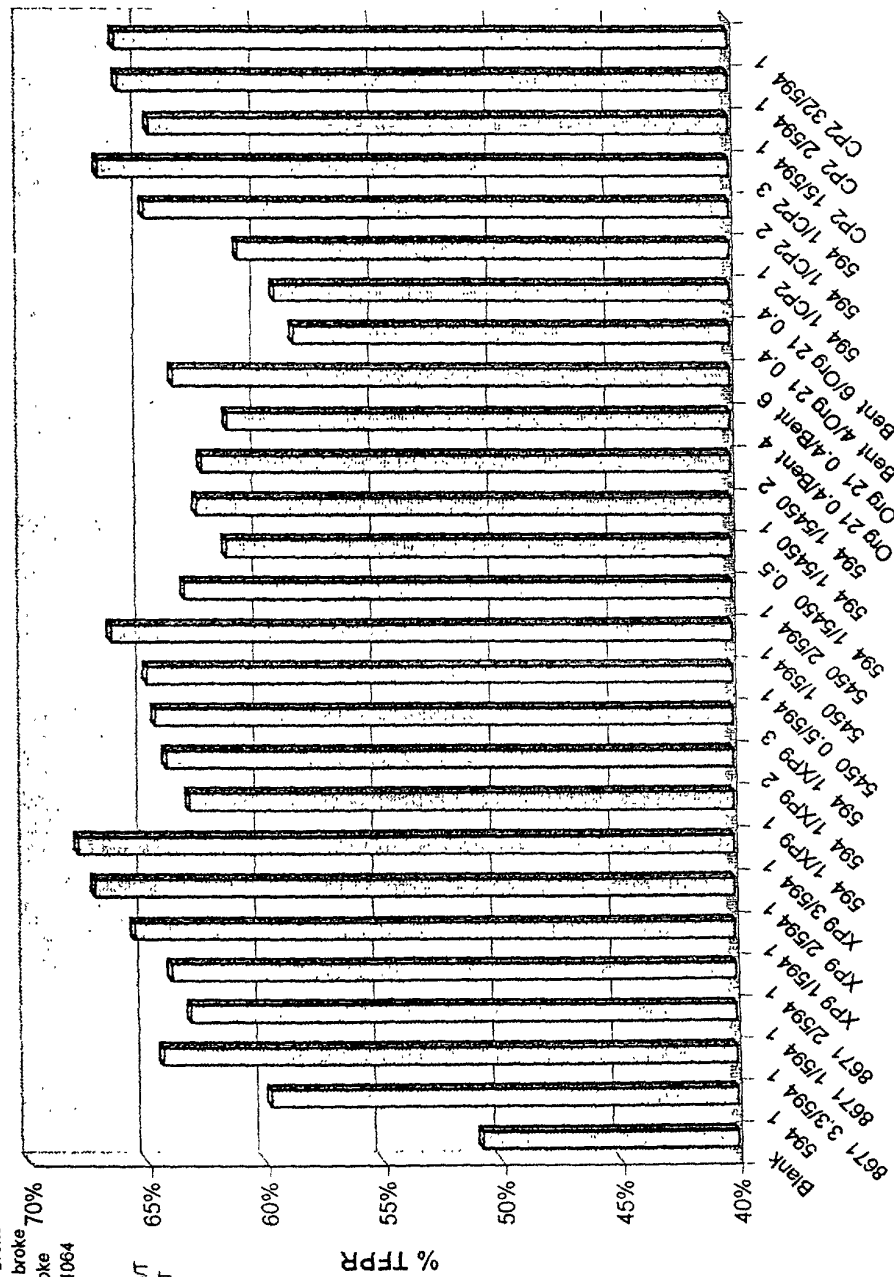


FIG. 22

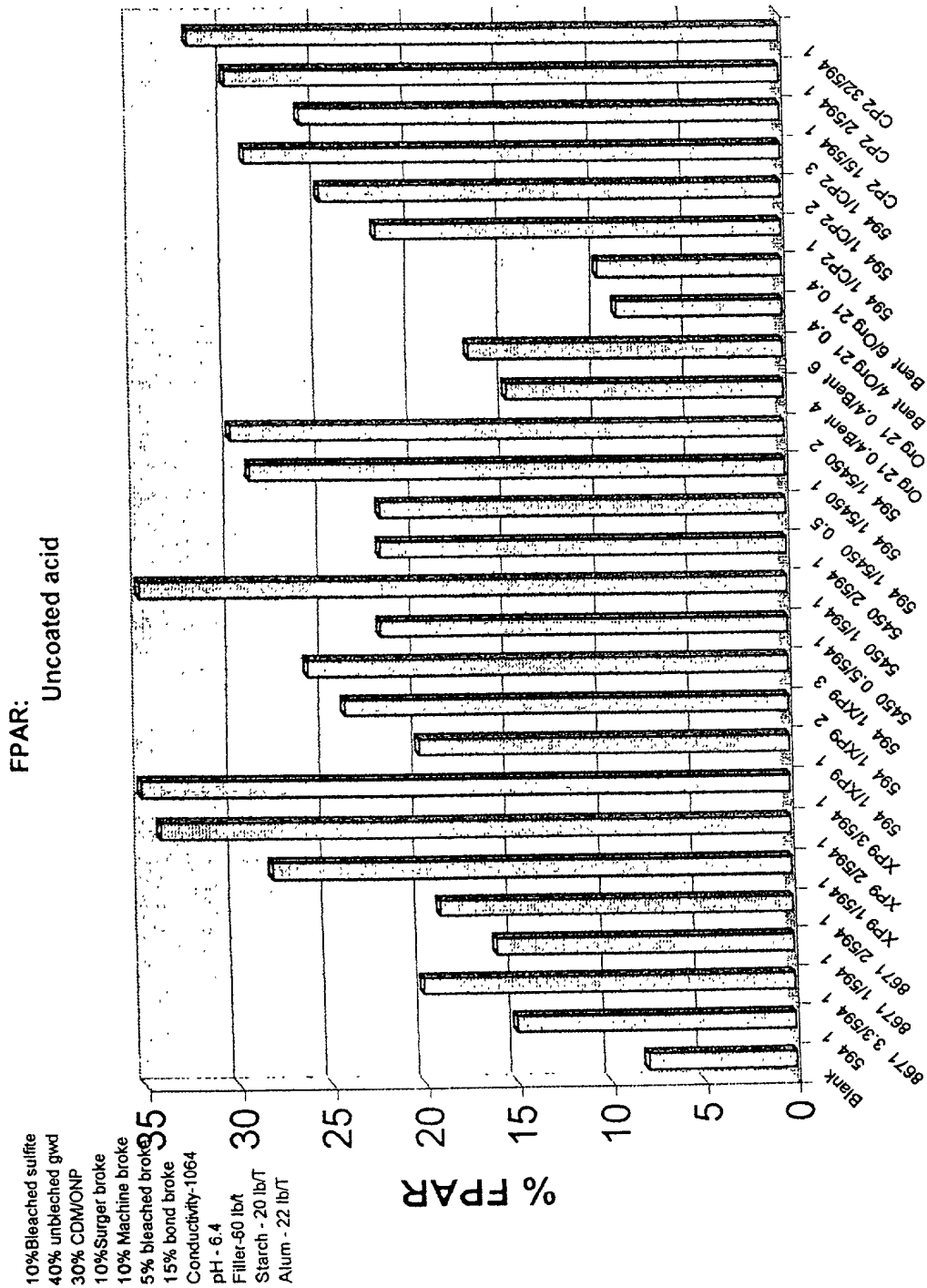


FIG. 23

Alkaline Fine Furnish

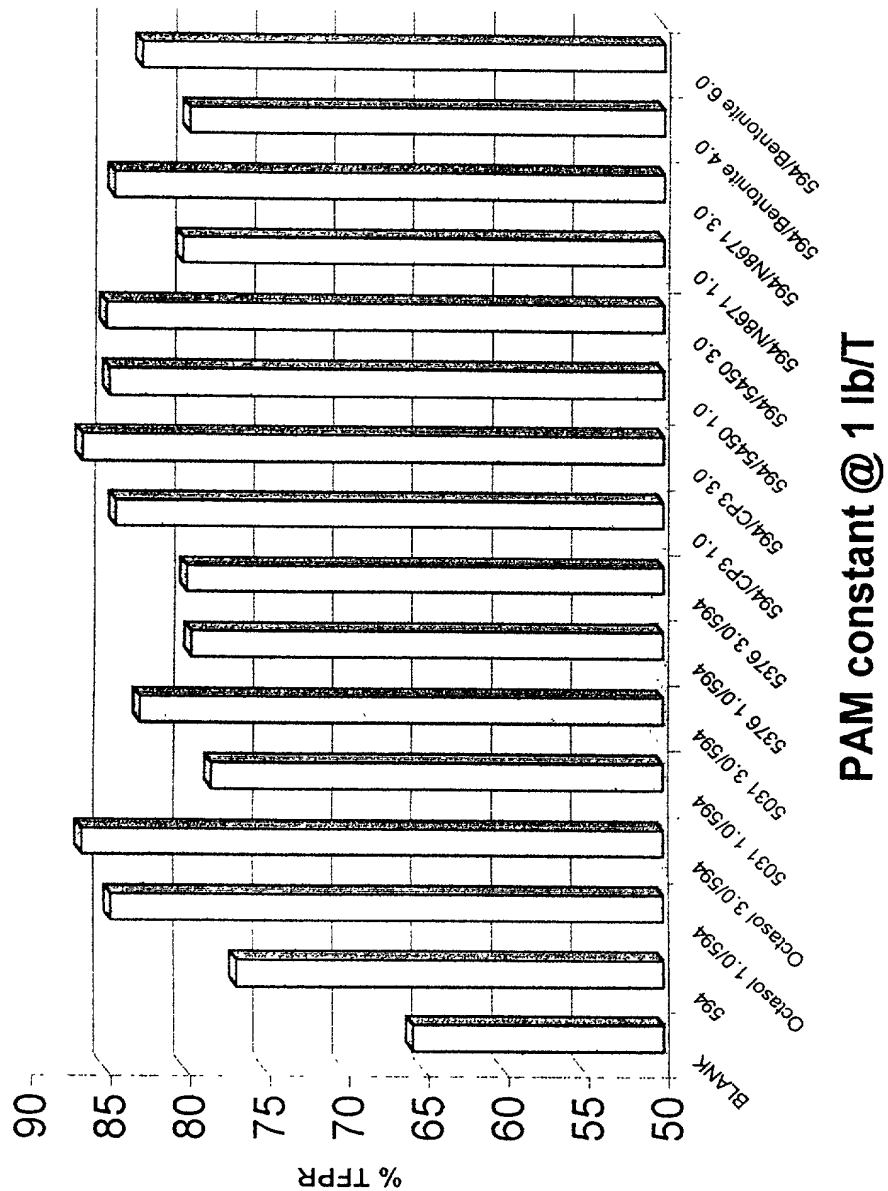


FIG. 24

100% 90% 80% 70% 60% 50% 40% 30% 20% 10% 0%

Octasol testing: TFPR

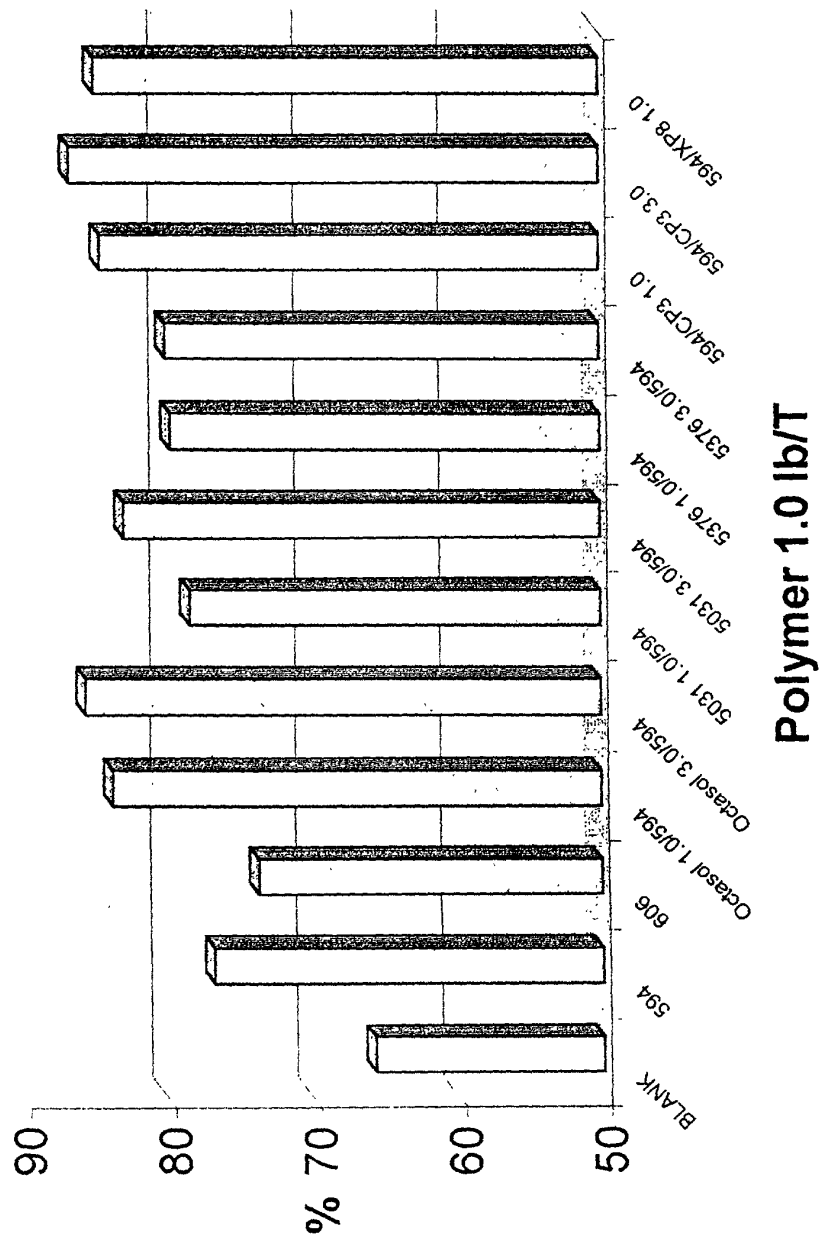


FIG. 25

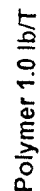
[illegible]

FIG. 26